

Comparisons of Job Characteristics

Focus Occupation: [Surveying and Mapping Technicians \(17-3031\)](#)

Associated Occupation: [Cartographers and Photogrammetrists \(17-1021\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Surveying and Mapping Technicians (17-3031)
Associated Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Geography	3.9	19.1	14.5	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	14.8	13.4	<	Expanded education and/or training may be required
Mathematics	9.2	9.9	15.0	>>	Current knowledge level is likely more than sufficient
Design	5.2	9.5	11.8	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Surveying and Mapping Technicians (17-3031)
Associated Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Reading Comprehension	10.7	12.8	11.3	<	A higher skill level may be required
Writing	9.2	11.4	9.6	<	A higher skill level may be required
Time Management	8.9	10.0	9.5	0	Current skill level may be sufficient
Systems Analysis	6.5	8.6	6.5	<<	Extensive development of skills in this area may be required
Systems Evaluation	6.4	8.0	6.3	<	A higher skill level may be required
Mathematics	6.2	7.9	11.6	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 95			
Focus Occupation: Surveying and Mapping Technicians (17-3031) Associated Occupation: Cartographers and Photogrammetrists (17-1021)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	13.0	11.6	<	Some improvement in abilities may be required
Near Vision	11.1	12.8	13.2	0	Current ability level may be sufficient
Written Comprehension	11.0	12.3	11.5	0	Current ability level may be sufficient
Oral Expression	12.4	12.0	11.1	0	Current ability level may be sufficient
Written Expression	9.8	12.0	9.4	<	Some improvement in abilities may be required
Inductive Reasoning	10.2	11.4	9.9	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	11.0	11.2	0	Current ability level may be sufficient
Information Ordering	9.9	10.7	11.5	0	Current ability level may be sufficient
Flexibility of Closure	7.8	10.1	9.8	0	Current ability level may be sufficient
Far Vision	7.8	9.3	10.0	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 90
Focus Occupation: Surveying and Mapping Technicians (17-3031) Associated Occupation: Cartographers and Photogrammetrists (17-1021)		
Work Activities	Exclusivity of Activity	
Analyze spatial data	87	
Analyze technical data, designs, or preliminary specifications	47	
Draw maps or charts	69	
Draw prototypes, plans, or maps to scale	57	
Interpret aerial photographs	69	
Read maps	42	
Read technical drawings	7	
Research property records	77	
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58	
Use drafting or mechanical drawing techniques	50	
Use geographical information system (GIS) software	72	
Use spreadsheet software	18	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 80

Focus Occupation: Surveying and Mapping Technicians (17-3031)
Associated Occupation: Cartographers and Photogrammetrists (17-1021)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Business function specific software	1
Cameras	2
Computer data input devices	2
Computer printers	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Drafting supplies	9
Industry specific software	1
Information exchange software	1
Land surveying instruments	19
Measuring and layout tools	3
Network applications software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.